

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/565,230
Source: 1FND
Date Processed by STIC: 11/28/06

ENTERED

CRF Errors Edited by the STIC Systems Branch

Serial Number: 10/565,230

CRF Edit Date: 11/28/06
Edited by: 182

☐ Realigned nucleic acid/amino acid numbers/text in cases where the sequence text "wrapped" to the next line

☐ Corrected the SEQ ID NO. Sequence numbers edited were:

☐ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:

☒ Deleted: ☒ invalid beginning/end-of-file text ; ☐ page numbers

☐ Inserted mandatory headings/numeric identifiers, specifically:

☐ Moved responses to same line as heading/numeric identifier, specifically:

☒ Other: corrected <1507, <1517 numeric identifiers



IFWO

RAW SEQUENCE LISTING

DATE: 11/28/2006

PATENT APPLICATION: US/10/565,230

TIME: 17:11:37

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\11282006\J565230.raw

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3 <110> APPLICANT: TRANSGENE SA
4     ERBS, Philippe
6 <120> TITLE OF INVENTION: Polypeptide having an improved Cytosine deaminase
7     activity
9 <130> FILE REFERENCE: D21447
C--> 11 <140> CURRENT APPLICATION NUMBER: US/10/565,230
C--> 11 <141> CURRENT FILING DATE: 2006-01-20
11 <150> PRIOR APPLICATION NUMBER: PCT/IB2004/002505
12 <151> PRIOR FILING DATE: 2004-06-29
14 <150> PRIOR APPLICATION NUMBER: US 60/508 274
15 <151> PRIOR FILING DATE: 2003-10-06
17 <150> PRIOR APPLICATION NUMBER: EP 03/360 087
18 <151> PRIOR FILING DATE: 2003-07-21
20 <160> NUMBER OF SEQ ID NOS: 2
22 <170> SOFTWARE: PatentIn Ver. 2.1
24 <210> SEQ ID NO: 1
25 <211> LENGTH: 373
26 <212> TYPE: PRT
27 <213> ORGANISM: Artificial Sequence
29 <220> FEATURE:
30 <223> OTHER INFORMATION: Description of Artificial Sequence :Fusion
31     protein having a CDase activity
33 <300> PUBLICATION INFORMATION:
35 <400> SEQUENCE: 1
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37   1           5           10           15
39 Ile Ala Tyr Glu Glu Ala Ala Leu Gly Tyr Lys Glu Gly Gly Val Pro
40           20           25           30
42 Ile Gly Gly Cys Leu Ile Asn Asn Lys Asp Gly Ser Val Leu Gly Arg
43           35           40           45
45 Gly His Asn Met Arg Phe Gln Lys Gly Ser Ala Thr Leu His Gly Glu
46           50           55           60
48 Ile Ser Thr Leu Glu Asn Cys Gly Arg Leu Glu Gly Lys Val Tyr Lys
49   65           70           75           80
51 Asp Thr Thr Leu Tyr Thr Thr Leu Ser Pro Cys Asp Met Cys Thr Gly
52           85           90           95
54 Ala Ile Ile Met Tyr Gly Ile Pro Arg Cys Val Val Gly Glu Asn Val
55           100          105          110
57 Asn Phe Lys Ser Lys Gly Glu Lys Tyr Leu Gln Thr Arg Gly His Glu
58           115          120          125
60 Val Val Val Val Asp Asp Glu Arg Cys Lys Lys Ile Met Lys Gln Phe
61           130          135          140
63 Ile Asp Glu Arg Pro Gln Asp Trp Phe Glu Asp Ile Gly Glu Ala Ser

```

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64 145          150          155          160
66 Glu Pro Phe Lys Asn Val Tyr Leu Leu Pro Gln Thr Asn Gln Leu Leu
67          165          170          175
69 Gly Leu Tyr Thr Ile Ile Ser Asn Lys Asn Thr Thr Arg Pro Asp Phe
70          180          185          190
72 Ile Phe Tyr Ser Asp Arg Ile Ile Arg Leu Leu Val Glu Glu Gly Leu
73          195          200          205
75 Asn His Leu Pro Val Gln Lys Gln Ile Val Glu Thr Asp Thr Asn Glu
76          210          215          220
78 Asn Phe Glu Gly Val Ser Phe Met Gly Lys Ile Cys Gly Val Ser Ile
79 225          230          235          240
81 Val Arg Ala Gly Glu Ser Met Glu Gln Gly Leu Arg Asp Cys Cys Arg
82          245          250          255
84 Ser Val Arg Ile Gly Lys Ile Leu Ile Gln Arg Asp Glu Glu Thr Ala
85          260          265          270
87 Leu Pro Lys Leu Phe Tyr Glu Lys Leu Pro Glu Asp Ile Ser Glu Arg
88          275          280          285
90 Tyr Val Phe Leu Leu Asp Pro Met Leu Ala Thr Gly Gly Ser Ala Ile
91          290          295          300
93 Met Ala Thr Glu Val Leu Ile Lys Arg Gly Val Lys Pro Glu Arg Ile
94 305          310          315          320
96 Tyr Phe Leu Asn Leu Ile Cys Ser Lys Glu Gly Ile Glu Lys Tyr His
97          325          330          335
99 Ala Ala Phe Pro Glu Val Arg Ile Val Thr Gly Ala Leu Asp Arg Gly
100          340          345          350
102 Leu Asp Glu Asn Lys Tyr Leu Val Pro Gly Leu Gly Asp Phe Gly Asp
103          355          360          365
105 Arg Tyr Tyr Cys Val
106          370
109 <210> SEQ ID NO: 2
110 <211> LENGTH: 216
111 <212> TYPE: PRT
112 <213> ORGANISM: Saccharomyces cerevisiae
114 <400> SEQUENCE: 2
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118 Gln Leu Leu Gly Leu Tyr Thr Ile Ile Ser Asn Lys Asn Thr Thr Arg
119          20          25          30
121 Pro Asp Phe Ile Phe Tyr Ser Asp Arg Ile Ile Arg Leu Leu Val Glu
122          35          40          45
124 Glu Gly Leu Asn His Leu Pro Val Gln Lys Gln Ile Val Glu Thr Asp
125          50          55          60
127 Thr Asn Glu Asn Phe Glu Gly Val Ser Phe Met Gly Lys Ile Cys Gly
128 65          70          75          80
130 Val Ser Ile Val Arg Ala Gly Glu Ser Met Glu Gln Gly Leu Arg Asp
131          85          90          95
133 Cys Cys Arg Ser Val Arg Ile Gly Lys Ile Leu Ile Gln Arg Asp Glu
134          100          105          110
136 Glu Thr Ala Leu Pro Lys Leu Phe Tyr Glu Lys Leu Pro Glu Asp Ile

```

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137		115		120		125										
139	Ser	Glu	Arg	Tyr	Val	Phe	Leu	Leu	Asp	Pro	Met	Leu	Ala	Thr	Gly	Gly
140		130					135					140				
142	Ser	Ala	Ile	Met	Ala	Thr	Glu	Val	Leu	Ile	Lys	Arg	Gly	Val	Lys	Pro
143	145						150				155					160
145	Glu	Arg	Ile	Tyr	Phe	Leu	Asn	Leu	Ile	Cys	Ser	Lys	Glu	Gly	Ile	Glu
146					165					170					175	
148	Lys	Tyr	His	Ala	Ala	Phe	Pro	Glu	Val	Arg	Ile	Val	Thr	Gly	Ala	Leu
149			180					185						190		
151	Asp	Arg	Gly	Leu	Asp	Glu	Asn	Lys	Tyr	Leu	Val	Pro	Gly	Leu	Gly	Asp
152			195					200					205			
154	Phe	Gly	Asp	Arg	Tyr	Tyr	Cys	Val								
155		210					215									

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/565,230

DATE: 11/28/2006

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Input Set : A:\PTO.AMC.txt

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L:11 M:270 C: Current Application Number differs, Replaced Current Application No

L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date

**Raw Sequence Listing before editing
(for reference only)**



IFWO

RAW SEQUENCE LISTING

DATE: 11/24/2006

PATENT APPLICATION: US/10/565,230

TIME: 13:35:37

Input Set : A:\PTO.DA.txt

Output Set: N:\CRF4\11242006\J565230.raw

3 <110> APPLICANT: TRANSGENE SA
 4 ERBS, Philippe
 6 <120> TITLE OF INVENTION: Polypeptide having an improved Cytosine deaminase
 7 activity
 9 <130> FILE REFERENCE: D21447
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109 <210> SEQ ID NO: 2
 110 <211> LENGTH: 216
 111 <212> TYPE: PRT
 112 <213> ORGANISM: Saccharomyces cerevisiae
 114 <400> SEQUENCE: 2

p.2

115	Met	Ser	Ser	Glu	Pro	Phe	Lys	Asn	Val	Tyr	Leu	Leu	Pro	Gln	Thr	Asn
116	1				5					10					15	
118	Gln	Leu	Leu	Gly	Leu	Tyr	Thr	Ile	Ile	Ser	Asn	Lys	Asn	Thr	Thr	Arg
119				20					25					30		
121	Pro	Asp	Phe	Ile	Phe	Tyr	Ser	Asp	Arg	Ile	Ile	Arg	Leu	Leu	Val	Glu
122			35					40				45				
124	Glu	Gly	Leu	Asn	His	Leu	Pro	Val	Gln	Lys	Gln	Ile	Val	Glu	Thr	Asp
125			50					55				60				
127	Thr	Asn	Glu	Asn	Phe	Glu	Gly	Val	Ser	Phe	Met	Gly	Lys	Ile	Cys	Gly
128	65					70				75					80	
130	Val	Ser	Ile	Val	Arg	Ala	Gly	Glu	Ser	Met	Glu	Gln	Gly	Leu	Arg	Asp
131					85					90					95	
133	Cys	Cys	Arg	Ser	Val	Arg	Ile	Gly	Lys	Ile	Leu	Ile	Gln	Arg	Asp	Glu
134				100				105					110			
136	Glu	Thr	Ala	Leu	Pro	Lys	Leu	Phe	Tyr	Glu	Lys	Leu	Pro	Glu	Asp	Ile
137			115					120					125			
139	Ser	Glu	Arg	Tyr	Val	Phe	Leu	Leu	Asp	Pro	Met	Leu	Ala	Thr	Gly	Gly
140		130					135					140				
142	Ser	Ala	Ile	Met	Ala	Thr	Glu	Val	Leu	Ile	Lys	Arg	Gly	Val	Lys	Pro
143	145					150					155				160	
145	Glu	Arg	Ile	Tyr	Phe	Leu	Asn	Leu	Ile	Cys	Ser	Lys	Glu	Gly	Ile	Glu

Does Not Comply
Corrected Diskette Needed

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PATENT APPLICATION: US/10/565,230

TIME: 13:35:37

Input Set : A:\PTO.DA.txt

Output Set: N:\CRF4\11242006\J565230.raw

146 165 170 175
148 Lys Tyr His Ala Ala Phe Pro Glu Val Arg Ile Val Thr Gly Ala Leu
149 180 185 190
151 Asp Arg Gly Leu Asp Glu Asn Lys Tyr Leu Val Pro Gly Leu Gly Asp
152 195 200 205
154 Phe Gly Asp Arg Tyr Tyr Cys Val
155 210 215
E--> 163 1

VERIFICATION SUMMARY

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DATE: 11/24/2006

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Input Set : A:\PTO.DA.txt

Output Set: N:\CRF4\11242006\J565230.raw

L:11 M:270 C: Current Application Number differs, Replaced Current Application Number

L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:163 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:2